

## DESCRIPTIONS OF NORTH AMERICAN HYMENOPTERA, No. 6.

BY E. T. CRESSON,

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## Genus TOXONEURON, Say.

The characters of this genus are given at length under the name of *Tenthredinoides* (Proc. Ent. Soc. Phil., iv., p. 290), which appears to be synonymous. It may be easily recognized by the short robust body, rather large transverse head, stout legs, broad ample wings (which are generally fuliginous), and especially by the form of the marginal cell, which is rather suddenly constricted (or somewhat reclivate) at tip of second sub-marginal cell, and thence narrowed to the apex, which is somewhat incurved, and reaches the extreme apex of the wing; this, as well as the second and third submarginal cells, are indistinctly defined, the nervures being sub-obsolete.

The species, thus far known, may be distinguished by the characters given in the following table:—

Body entirely black.

Wings entirely fuliginous.

Legs black, anterior knees honey-yellow.

Tibial spurs black..... 1. *ÆTHIOPS*.

Tibial spurs white..... 2. *MINUTUM*.

Legs black, anterior femora and tibiae, and intermediate

knees honey-yellow..... 3. *ORIZABÆ*.

Legs honey-yellow, coxæ, trochanters, tips of posterior

tibiae and their tarsi black..... 4. *EXPLORATOR*.

Wings hyaline, apex fuliginous.

Legs entirely black..... 5. *MEXICANUM*.

Legs black, anterior pair except base honey-yellow..... 6. *APICALE*.

Legs black, anterior tibiae and tarsi, base of intermediate

tibiae, their tarsi and band at base of posterior tibiae white or yellow..... 7. *TIBIATOR*.

Body black; head, pro and mesothorax and anterior legs flavo-ferruginous..... 8. *THORACICUM*.

Body black; abdomen and legs flavo-ferruginous..... 9. *ABDOMINALE*.

Body ferruginous; head, antennæ, metathorax and pleura black... 10. *SEMINIGRUM*.

Body fulvo-ferruginous; mouth, antennæ, pleura beneath and metathorax black..... 11. *VIATOR*.

Body yellow; three spots on mesothorax, spots on pleura, and abdomen, except base, black..... 12. *ORNATUM*.

1. TOXONEURON ÆTHIOPS. *N. sp.*

♀.—Black, shining, clothed rather thickly with a short whitish pubescence; wings fuliginous, a sub-hyaline spot beneath base of stigma, posterior wings except tips and costa, hyaline; legs black, anterior knees bright honey-yellow, their tarsi palish. Length .25 inch.

Cordova, Mexico. (Sumichrast.)

2. TOXONEURON MINUTUM. *N. sp.*

♀.—Very small, black, shining, slightly pubescent; wings uniformly pale fuliginous, iridescent; legs black, tibial spurs white, anterior knees, their tibiae, four anterior tarsi except tips, and intermediate knees pale yellowish. Length .10 inch.

Illinois.

3. TOXONEURON ORIZABÆ. *N. sp.*

♂.—Black, shining, slightly pubescent; mandibles, anterior femora except base, their tibiae and intermediate knees, honey-yellow, tibial spurs black; wings fuliginous, iridescent, posterior pair sub-hyaline; abdomen flat, base tinged with piceous. Length .16 inch.

Orizaba, Mexico. (Sumichrast.)

## 4. TOXONEURON EXPLORATOR.

*Bracon (Toxoneuron) explorator*, Say, Bost. Jour. Nat. Hist., i, p. 259.

"Indiana" (Say); Illinois; Texas. The femora except base, and the tibiae except apex of posterior pair, are bright honey-yellow; tibial spurs pale; in one specimen the posterior femora and tibiae are dusky. Length .20 inch.

5. TOXONEURON MEXICANUM. *N. sp.*

♂ ♀.—Black, shining, rather thickly clothed with a short, white, sericeous pubescence; tips of mandibles brown; impressed lines on mesothorax and excavation at base of scutellum, crenulated; wings hyaline, apex beyond first cubital cell fuliginous, nervures black; spurs of anterior tibiae pale. Length .25-.30 inch.

Cordova, Mexico. (Sumichrast.) Sometimes the posterior orbits are tinged with honey-yellow, and the pubescence on anterior tibiae tinged with yellow.

6. TOXONEURON APICALE. *N. sp.*

♂.—Black, shining, clothed with a very short dull pubescence; sutures of mesothorax not crenulated; metathorax with strongly developed elevated lines; wings hyaline, apex fuliginous, leaving base of marginal and of second cubital cells hyaline; nervures and stigma black; legs black, anterior femora except base and their tibiae entirely, bright orange-yellow, intermediate knees slightly tinged with testaceous. Length .20 inch.

Illinois.

## 7. TOXONEURON TIBIATOR.

*Bracon tibiator*, Say, Long's 2nd Exped., ii, p. 322; (*Toxoneuron*) Bost. Jour. Nat. Hist., i, p. 259.

"Pennsylvania" (Say); Illinois. A very pretty species, easily recognized by the white annulus at base of posterior tibiae. Length .25 inch.

8. TOXONEURON THORACICUM. *N. sp.*

♂ ♀.—Black, shining; head, prothorax, mesothorax, spot beneath tegulae and anterior legs except coxae, trochanters and base of femora pale ferruginous; spot on cheeks beneath, mouth, more or less of clypeus and a spot between ocelli and eyes in ♂, black; wings uniformly blackish-fuliginous, nervures and stigma black; metathorax with strongly developed elevated lines, forming an ovate central area. Length .20 inch.

Cordova, Mexico. (Sumichrast.)

9. TOXONEURON ABDOMINALE. *N. sp.*

♂.—Black, clothed with a short dull pubescence; posterior orbits, legs except coxae and trochanters, and the abdomen entirely pale sanguineous; base of first abdominal segment tinged with yellow; wings dark fuliginous, nervures and stigma black; posterior tarsi dusky. Length .28 inch.

Illinois. *Bracon populator* (Say, Long's 2nd Exped., ii, p. 323), which is also referred to this genus by Say, and which, he says, is "a very common insect in many parts of the United States, does not appear to be a *Toxoneuron*, as the ovipositor is described as being longer than the abdomen." It is probably a true *Bracon*.

## 10. TOXONEURON SEMINIGRUM.

*Tenthredoides seminiger*, Cress., Proc. Ent. Soc. Phil., iv, p. 291, ♂ ♀.

Colorado. Colored much like *Microdus divisis*, described in the preceding paper (page 52); the form is, however, much more robust, and the neuration of the wings entirely different.

## 11. TOXONEURON VIATOR.

*Bracon (Toxoneuron) viator*, Say, Bost. Jour. Nat. Hist., i, p. 258.

"Indiana" (Say); Arizona. The specimen from Arizona has all the coxæ, except spot on two anterior pair beneath, concolorous with remainder of legs. Length .30 inch.

12. TOXONEURON ORNATUM. *N. sp.*

♂.—Lemon-yellow, shining; spot behind antennæ covering ocelli, extending to summit of eyes and from thence in a narrow line to occiput which it margins, three stripes on mesothorax, the central one broad and abbreviated behind, spot on scutellum, short line beneath tegulæ, furcate line on pleura, large spot on underside, posterior coxæ beneath and a spot above at base, their femora and tibiæ within, spot on each side of first abdominal segment, and the remaining segments except very narrow apical margins, black; flagellum brown; wings yellow-hyaline, apex fuscous, nervures and stigma reddish-brown; apex of abdomen compressed. Length .25 inch.

Cordova, Mexico. (Sumichrast.) A beautiful species.

## Genus PROTEROPS, Wesm.

PROTEROPS CALIFORNICUS. *N. sp.*

♂.—Black; abdomen entirely ferruginous; wings uniformly blackish-fuliginous; antennæ as long as body; legs entirely black, slender. Length .30 inch.

California. (Behrens.) This is allied in general form to *Toxoneuron*, from which it is at once separated by the anterior ocellus being situated between the insertion of the antennæ. The neuration is also quite different.

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